Vesta Stair Lift



INSTALLATION MANUAL



Hazard and Warnings



ELECTRICAL SHOCK HAZARD

Do not connect/disconnect wiring while the power is on. Before servicing, disconnect all power to the equipment.

WARNING

SUDDEN MOVEMENT HAZARD

System may start unexpectedly upon application of power. Stay clear of moving parts to avoid injury.



ELECTRICAL SHOCK HAZARD

AmeriGlide, Inc. is not responsible for any modifications of the product made by the user. Do not allow unqualified personnel to use the equipment. Failure to comply could result in death or serious injury. Maintenance, inspection, and replacement of parts must be performed only by authorized personnel familiar with installation, adjustment, and maintenance. Do not remove covers or touch circuit boards while power is on.



WARNING

FIRE HAZARD

Do not use an improper voltage source. Before applying power, verify that the rated voltage matches the voltage of the incoming power supply.



CAUTION

FOLLOW PROPER ESD PRECAUTIONS.

Before touching circuit boards, touch a grounding point to discharge any static electricity from your body.

Job Site Tools

The following list provides recommended tools and materials to use during installation:

- Drill or Screwdriver with the following insert or quick change bits:
 - Phillips #1, #2, #3 (small, medium, and large) Allen 3mm, 4mm, and 5mm Square #3
- Corded or Cordless Drill for inserting the track bracket lag bolts and drilling optional pilot holes.
- Ratchet
- 13mm Socket
- 14mm Deep Socket
- 12" or longer Socket Extension
- 13mm Wrench or Adjustable Wrench

- Measuring Tape
- Box cutter, Pocket Knife, or Scissors
- Pencil, Marker, or Sharpie Sharpie marks on the track can be removed with hand sanitizer.
- Masking Tape for holding bolts in place

OPTIONAL: 1/4" Drill Bit to make pilot holes for the track bracket lag bolts in hardwood floors.

NOTE: Concrete or steel floor installations require special tools to insert the track bracket lag bolts.

List of installation steps

⚠ WARNING

Follow the steps provided to ensure your safety during installation. Failure to follow instructions renders the Limited Warranty null and void. In addition, any party installing the product who deviates from the installation instructions agrees to indemnify, save, and hold harmless the manufacturer from any and all loss, liability, or damage that may occur as a result of the deviation.

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STEP 1

Check the job site

Read this manual in its entirety BEFORE beginning work. Confirm that you have all pages of the manual. It's better to find out now if there are any issues that will prevent installation, and not when you have a non-functioning stair lift taking up room on your staircase.

Procedure

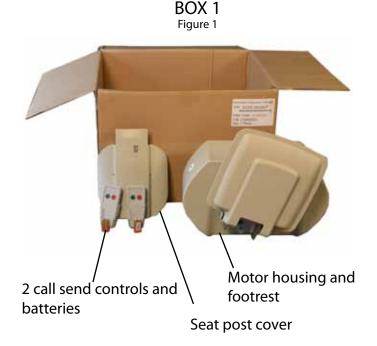
- 1. Clear the area so that you can bring in the stair lift motor housing, seat, and track sections from your staging area to the staircase.
- Confirm that the track sections can be maneuvered into the staircase area. If you can't get the track through the door, now is the time to find out!
- 3. Re-measure the staircase and confirm that the measurements match what you sent with your order. If the measurements don't match, please contact your AmeriGlide provider before beginning work to see if the mismatch will cause an issue or not. Your pre-cut track will be 10" longer than your stair case to allow for an overhang at the top and bottom.
- 4. Ensure that the steps will support the maximum capacity of the Vesta stair lift, 300 pounds.
- 5. Ensure that there is a working, standard household outlet (110 VAC) located at the top or bottom of the stairs to plug in the charger. It should be non-switched to ensure that the charger always has power.
- 6. Ensure that all electrical equipment and wiring complies with applicable codes for your area.
- 7. Ensure that there are no fire and safety issues. Contact your AmeriGlide provider if necessary.
- 8. Ensure that there is adequate lighting along the staircase and at the landings.

Unpack and verify your shipment

Unpack the Vesta stair lift boxes and confirm that you have all pieces and that all pieces are undamaged.

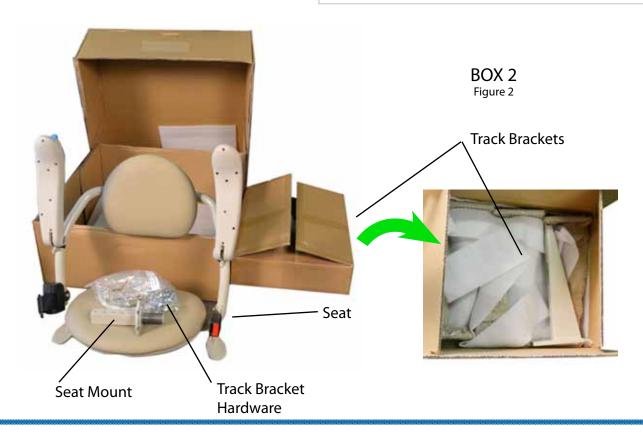
Procedure

- 1. Check the contents of the shipment against your order receipt and the bill of materials.
- 2. Check the condition of the parts for damage. Do not install damaged parts. Although it's a large inconvenience to request new parts, using damaged parts can lead to safety problems in the future and void the Vesta's warranty. Please take the time to make sure you use only parts in good condition.
- 3. Contact your AmeriGlide provider if any parts are missing, incorrect, or damaged.

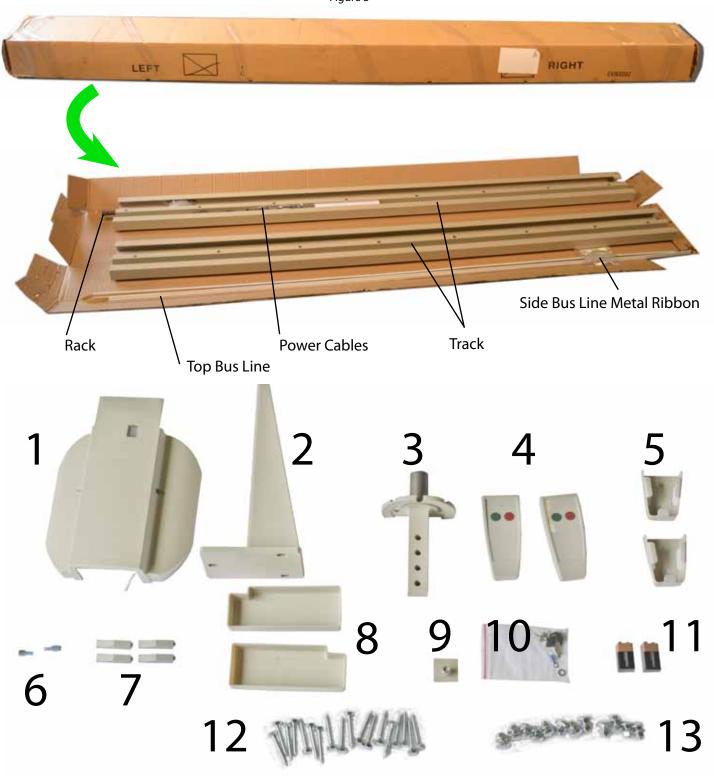


NOTE

If you receive damaged parts, please photograph the damaged parts and have them ready to email to your provider.



BOX 3 Figure 3



- 1. Foot rest cover
- 2. Rail bracket
- 3. Seat post
- 4. Remotes

- 5. Remote holders
- 6. Electrical connectors
- 7. Limit switch cam
- 8. End caps

- 9. Mechanical stop
- 10. Key
- 11. Batteries
- 12. Rail bracket lag bolts

13. Rail bracket bolts

Confirm the stair lift's handing

Confirm that you are installing the stair lift on the proper side of the staircase and that this matches what you ordered.

Procedure

- 1. To confirm if the stair lift is a left-hand or a right-hand unit, begin by standing at the bottom of the staircase looking up to the top landing.
- 2. If the stair lift will be installed on the left side of the staircase, you are installing a left-hand unit. If the stair lift will be installed on the right side, you are installing a right-hand unit. (See Figure 4). Confirm that this matches what you ordered from your AmeriGlide provider.

Note: The Vesta track can be used for either a right or left handed install. You just have to be sure that the gear teeth are facing downward.



Figure 4 Right-hand unit installed on right side of stairs as viewed from bottom of stairway

STEP 4

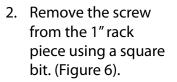
Connect the track sections together

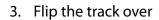
Connect the track sections together using the splice bars provided. NOTE: If your Vesta installation requires only one section of track, you may skip this section.

Procedure

1. Lay out the bottom section of track on the stairs with the 1" rack piece that extends from the end of the track facing towards the top landing.

NOTE: If you have a right-hand unit, the 1" rack piece should be facing the bottom landing.





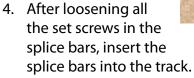




Figure 5



Figure 6

- 5. Tighten the 4 set screws in each splice bar that
 - are in contact with the bottom section of the track. You should now have the 1" rack piece and 2 splice bars sticking out from the track

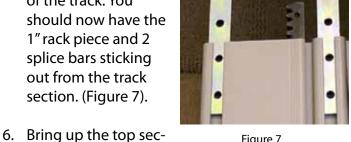


Figure 7 tion of track and lay it so that it can be connected to the bottom section of track. To tell which way to orient the top section of track, look for the 1" gap in the rack where the rack piece from the bottom section of track will go into (Figure 8).

7. Carefully line up the two sections of track and



Figure 8

insert the top section into the bottom section of track. It will take a little bit of work to get the track sections together – this is normal. If the top section does not fit onto the splice bars, confirm that the set screws are loose.

- 8. Make sure there are no gaps in the rail and tighten the remaining set screws.
- 9. Flip the track over and insert and tighten the rack screw as shown. The track sections are now joined. (Figure 9).



Figure 9

STEP 5

Track assembly

Install the track mounting brackets on the track to form a track assembly and then mount the track assembly to the stair treads.

- 1. When installing the track assembly, the following measurements must be maintained:
 - a. A clearance of ½" between the bottom of the track and the floor at the bottom landing. If this clearance is not maintained, you will not be able to install the track end cap. (Figure 10)



Figure 10

b. A clearance of 4" between the bottom of the rail and every step nose. If this clearance is not maintained, the footrest safety sensor will be falsely triggered and the stair lift will stop. (Figure 11).



Figure 11

c. A clearance of 3 ½" from the wall or obstacle to the back of the track. If this clearance is not maintained, the Vesta may catch on the wall, causing damage to the Vesta unit.

OBSTACLES NOTE: The most common example of on obstacle is a hand rail. Measure from the wall to the outside of the hand rail. Add 3 ½" to this measurement. This result is

the measurement from the wall that must be maintained.

UNEVEN WALLS NOTE: Most walls are not perfectly even. It's important to just maintain a minimum clearance of 3 ½" from the wall or obstacle to the back of track. Larger clearances are okay.

- d. Finally, a mounting bracket must be installed on the first step from the bottom and top landings and immediately before and after any track splice. The remaining mounting brackets should be placed at even intervals between the required brackets.
- 2. BOTTOM BRACKET Start by resting the track on the nose of the steps with the bottom of the track ½" off the floor. Temporarily put a track end cap on to prevent the track from cutting into the spacer. For the spacer, use the foam piece from the motor housing box as shown. Place this between the bottom of the track and the floor. (Figure 12). This foam will also help to keep the track from sliding while you work with it.



Figure 12

- 3. Flip the track onto its side and install the 6 bolts for the 3 brackets that will be installed in the bottom section of track. Because of the track splice bars you will not be able to slide the extra bolts down from the top later you must install them now.
- 4. Use masking tape to hold the 4 bolts in place that go to the middle bracket and the bracket next to the splice. Place the tape immediately behind the bolt. (Figure 13).



Figure 13

 Install the lower bracket at an angle onto the remaining two bolts and hand tighten the nuts, starting with the bottom one. (Figure 14) If you tighten the top bolt first, it may obstruct your view.



Figure 14

6. Rotate the track back to its proper position and place the track with the lower bracket against the wall. Adjust the bracket positioning (you may need to loosen the nuts just slightly) until you get the 4" clearance between the bottom of the



Figure 15

rail and the bottom step's nose. (Figure 15).

7. Without moving the bracket or track, tighten the top nut on the bracket. Once this is tight, move the track assembly away from the wall so you

- can access the lower nut. Tighten the lower nut. Swing the track assembly back to the wall and confirm the 4" clearance. If you measure less than 4", repeat the procedure until you get a 4" clearance.
- 8. Place the track assembly so there is a 3 ½" gap between the wall or obstacle and the back of the track. For most installations that are against a flat wall with no obstacles, this simply means placing the bracket against the wall.



Figure 16

9. Install one lag bolt into the bottom bracket and tighten it to hold the bracket in place. Do not place more than one lag bolt into the bracket at this time. Otherwise you will not be able to swing the track assembly out as required in later steps. (Figure 17)



Figure 17

NOTE: If you have hardwood stair treads, be sure to drill 1/4" pilot holes to prevent the wood from splitting.

10. Before moving to the top bracket, slightly loosen the top nut on the bottom bracket. This will allow you to swing the end of the track up and down as needed.

- 11. TOP BRACKET Swing out the track slightly so that you can access the back side of the top section of track. Slide in the 4 bolts for the brackets that will be installed on the top section of track. These bolts are for the middle bracket and the bracket next to the splice.
- 12. Install the upper bracket onto the remaining two bolts and hand tighten the nuts, starting with the bottom nut.
- 13. Swing the track with the upper bracket against the wall. Adjust the upper bracket positioning (you may need to loosen the nuts just slightly) until you get the 4" clearance between the bottom of the rail and the nose of the step just below the top landing.
- 14. Without moving the bracket or track, tighten the top nut on the bracket. Once this is tight, swing the track assembly away from the wall so you can access the lower nut. Tighten the lower nut. Swing the track assembly back to the wall and confirm the 4" clearance. If you measure less than 4", repeat the procedure until you get a 4" clearance.
- 15. Retighten the top nut on the bottom bracket.
- 16. Measure from the bottom of the rail to the nose of every step on the staircase. Do not be surprised to find out that your steps are not even, most steps are not. Any measurement 4" or larger is okay. If you find a measurement less than 4", you will need to increase the gap of the bracket closest to that step (either the top or bottom bracket) until you get at least a 4" measurement at the problem step. If you run into problems, please contact your AmeriGlide provider before continuing.
- 17. You now have properly installed bottom and top brackets on your track assembly. Swing the top of the track assembly away from the wall and install the remaining brackets as described in the next step. Remember that you must have a bracket in place immediately before and after

the track splice. The other brackets should be placed at even intervals between the required brackets. If you feel you need extra brackets, please contact your AmeriGlide provider before continuing.

18. As you add the brackets, just finger tighten the nuts. Once all brackets are in place, swing the track back against the wall. Move the brackets so their bottoms are are flat against the stair tread. Tighten the top nuts on all the brackets. (Figure 18).



Figure 18

- 19. Swing the track away from the wall and tighten the bottom nut on each bracket.
- 20. Do not tighten the lag bolts on the bottom bracket until you have removed the foam spacer and bottom end cap.
- 21. Swing the track back against the wall. Confirm that you are maintaining the proper 3 ½" gap between the wall or obstacle and the back of the track. Install the bracket lag bolts, starting from the top of the stairs and working your way down.
- 22. Make sure to tighten firmly the lag bolts using a strong drill or by going back over the bolts and tightening them with a wrench. On carpeted stairs, the bases of the brackets will sink into the carpet.

STEP 6

Install the bus lines

Install the bus lines inside the track to provide power for the stair lift.

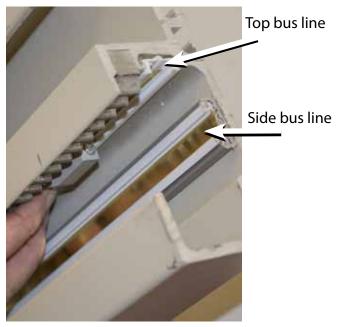


Figure 19

- Determine if the charger for the Vesta stair lift will be located at the bottom or the top of the stairs. As noted earlier, the charger must be plugged into a standard household 110 VAC outlet that is non-switched.
- Regardless of where the charger will be installed, the bus lines must be installed from the top landing. Installing the bus line from the bottom would be very awkward. (Diagram 1). The bus line will be installed in the deepest of the bus line holders.

NOTE

Installation of bus line will be easier if a small amount of WD-40 is applied to the plastic holder.



Diagram 1

- 3. TOP LANDING CHARGER: The charger attaches to the metal strips at the end of the bus lines with quick connect female terminals. For a charger located at the top landing, make sure to install the bus line starting with the ends opposite the metal strips. (Detailed pictures in Step 13).
- 4. BOTTOM LANDING CHARGER: The charger attaches to the metal strips at the end of the bus lines with quick connect female terminals. For a charger located at the bottom landing, make sure to install the bus line starting with the ends that has the metal strips. (Detailed pictures in Step 13).
- 5. TOP BUS LINE: The top bus line is a plastic strip preloaded with a metal ribbon. It is the positive connection to the charger. Feed the bus line down the channel located inside the track. Continue to feed the top bus line until the plastic covered section is completed inside the channel. Only the metal strip for the charger attachment should remain outside the channel (1 1/2"), on either the top or bottom end of the track. (Figure 20).



Figure 20

6. SIDE BUS LINE: The side bus line is a bare metal ribbon that is inserted down the plastic channel already in side the track. It is the ground connection to the charger. Feed the side bus line down the side plastic channel until only a 1 1/2" metal strip of the metal ribbon is outside the track, at either the top or bottom of the track.

NOTE

Keeping the bus line in a roll and working it in a little at a time is the best method. Do not allow the bus line to bend or kink. This will make it much harder to install.

Install the motor housing on track

Prepare the motor housing (also referred to as the base or carriage) for installation and then install the motor housing on to the track.

Procedure

- 1. Before beginning, check the condition of the motor housing one more time. This is the best time to address any problems with the motor housing as you have easy access to it. It will also make troubleshooting much easier should you have problems with the stair lift after completing installation.
- 2. Check the motor housing by visually inspecting the limit switches, the charging plungers, and the drive sprocket for broken parts and loose wires. Specifically:
 - Are the arms of the limit switches straight?
 If they are bent, please contact your Ameri-Glide provider. (Figure 21).

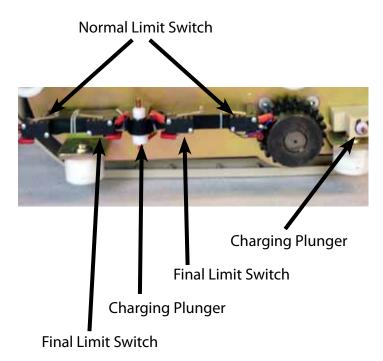


Figure 21

b. Is the drive sprocket in good condition? If it has broken teeth or is not flush to the drive shaft, please contact your AmeriGlide provider. (Figure 22).

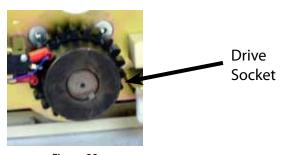


Figure 22

- Do all the roller wheels spin freely and have snap rings? If not, please contact your AmeriGlide provider.
- 3. Remove the top motor housing cover by removing the two Phillips head screws. Install the provided fuse into the fuse holder. The fuse does not come installed as this help prevent battery issues. (Figure 23A).



Figure 23A

4. Connect the negative battery wire to the terminal labeled "B-" on the circuit board. The battery wire does not come installed as this helps prevent battery issues. (Figure 23B).



Figure 23B

Negative Battery

5. Once the fuse and battery are connected, you should see a green LED on the front of the unit. It will flash a few times and emit an audible beep (16 times) before staying solid. It flashes because the charger is not connected yet. You do not need to connect the charger at this time. It will be installed later. (Figure 24).



Figure 24

Green LED

6. Put the top motor housing cover back on and screw in the two Phillips head screws. (Figure 25)



Figure 25

7. Use the temporary rope handle to assist in lifting the motor housing. (Figure 26). You may



Figure 26

also wish to place your other hand underneath the motor housing. Move the motor housing into place by sliding it onto the track from the top landing. As you slide the motor housing onto the track, be sure to guide the roller wheels into their proper channels and that the drive sprocket is in line with the rack in the track. You will need to hold the motor housing at the same angle as the track in order to make a smooth transition. (Figure 27). NOTE: The motor housing is heavy. This may be one step where you might

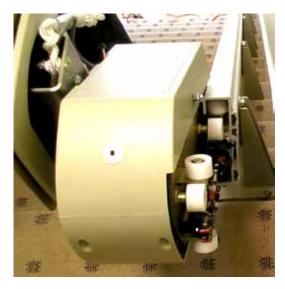


Figure 27

prefer assistance. Please do not lift a weight you are uncomfortable lifting. NOTE: Be careful not to damage the limit switches when sliding the motor housing onto the track.

8. The motor housing will only go a few inches onto the rail. This is normal. To complete the installation of the motor housing, you must activate the temporary rocker switch that comes



Figure 28

attached to the motor housing. (Figure 28). This will let you run the Vesta's motor in the down direction and move the motor housing down the track. NOTE: All Vesta controls operate on a 3-5 second delay as a safety feature. Please

- make sure to hold the control switch for at least 5 seconds before considering that there may be a problem with the stair lift.
- 9. Run the Vesta using the temporary rocker switch until there is a 12" gap from the end of the track at the top landing to the motor housing.
- 10. Remove the temporary rope handle from the motor housing by removing the nuts from where it is attached and taking the rope handle off. Replace the nuts, but do not tighten them at this point. (Figure 29).



Figure 29

Adjust the motor housing post angle

The motor housing post must be adjusted so that it's level. This ensures the footrest sensor works properly and that passengers sit comfortably in the seat.

Procedure

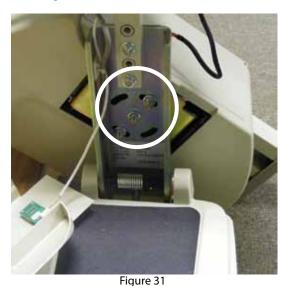
 Place a level on the top of the motor housing post. This will be your guide. In the unlikely event the post is already level, you can skip to step 3 of this section. (Figure 30).
 If the seat will not level, remove the 3 nuts and



Figure 30

rotate the motor housing post to align with the correct elongated hole pattern.

2. There are three nuts on the motor housing plate. (Figure 31). Loosen these three nuts and



- rotate the plate as needed until the level shows that the motor housing post is level.
- 3. Firmly tighten the three nuts. Confirm that the motor housing post is still level. If the post's position has changed, repeat the above steps until the post is level.

Install the seat post and cover

Install the seat post onto the motor housing post so that the seat can be installed and then install the front cover.

Procedure

- 1. Remove the nuts again from where the temporary rope handle was attached.
- 2. Install the seat post with the half-moon shaped section facing the wall where the stair lift is attached. You have two height choices for installing the seat post. If most riders are taller than 5' 10", we recommend setting the seat post high. If most riders are shorter than 5' 10", we recommend setting the seat post low. (Figure 32).



Figure 32

3. Secure the seat post by replacing the two nuts and tightening them firmly. (Figure 33).



Figure 33

4. Attach the front cover diagnostic LED cable connector to the front cover. (Figure 34)

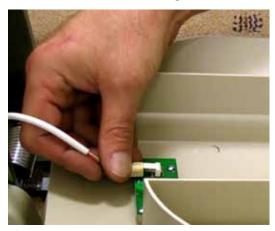


Figure 34

- 5. The screws for the seat post cover will come screwed into the motor housing post. Remove these.
- 6. Attach the front cover to the motor housing by screwing in the two Phillips head screws that you just removed onto either side of the cover. (Figure 35)



Figure 35

Install the seat

Install the seat onto the seat post and make any seat adjustments necessary.

Procedure

1. Slide the seat onto the seat post. It should be a fairly tight fit. (Figure 36).



Figure 36

2. Remove the temporary rocker switch. Plug the seat cable into where the temporary rocker switch was connected on the motor housing. (Figure 37).



Figure 37

OPTIONAL: 3-8 Do the following steps ONLY if you need to adjust for a wider seat.

- 3. You can adjust the width of the seating area by adjusting the arms in or out. If you do not need to adjust the width of the seating area, please skip the rest of this section.
- 4. Remove cover on the back side of the seat backrest. This will require you to remove four screws and their washers. Set them aside. (Figure 38).



Figure 38

5. With the cover off, locate the two hex bolts and nuts on the back side of the seat backrest. Remove them and set them aside. (Figure 39).



Figure 39

6. To adjust the width of the seating area, flip up the seat and locate the hex bolts and nuts on each side of the seat support. Remove the bolts and nuts and set them aside. (Figure 40).

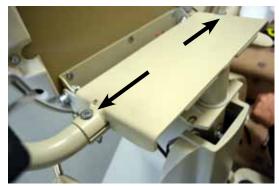


Figure 40

- 7. Adjust the arms in or out as required. The tubes holding the arms may be snug. Please be patient.
- 8. Reinstall the hex bolts and nuts on the seat support and the seat backrest. Make sure the seat is vertical before locking the lower nuts and bolts in place.
- 9. Reinstall the plastic over on the seat backrest.

A CAUTION

Be careful not to damage the wiring from the motor housing to the base of the seat while performing this operation.

Install the limit switch cams

Install the limit switch cams into the top and bottom of the track to prevent the stair lift from overrunning the track.

Procedure

 You will install the upper and lower limit switch cams into the top bus line that you installed previously. The cams fit by sliding into the plastic section of the top bus line over top of the metal ribbon running throughout the bus line. (Figure 41) The measurements required depend on whether you are install a left-hand or right-hand unit. Make sure you follow the proper set of instructions.



Figure 41

The easiest way to accurately place the cams is by using a tape measure and then marking the proper distance with a pencil or other marker. This frees your hands to move the cams in and



Figure 42

out. (Figure 42).

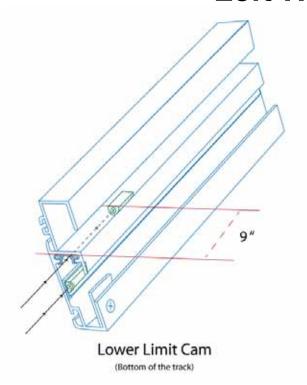
- should be 2 ½" from the end of the top of the track to the screw end of the cam. The lower limit switch cam should be 9" from the end of the bottom of the track to the screw end of the cam. Lock the cams in place by screwing in the Phillips head screw located on the cam. Confirm that your measurements are correct. (Diagram 2).
- 4. RIGHT-HAND UNIT. The upper limit switch cam should be 9" from the end of the top of the track to the screw end of the cam. The lower limit switch cam should be 2 ½" from the end of the bottom of the track to the screw end of the cam. Lock the cams in place by screwing in the Phillips head screw located on the cam. Confirm that your measurements are correct. (Diagram 3).
- 5. The side limit switches need to be installed into the side bus line. They are installed flush with the end of the side bus line (Figure 43).



Figure 43

6. Run the lift and confirm that the stair lift stops at the proper place. If the stair lift appears to stop to soon or late, check the positioning of your cams. If the stair lift fails to stop, please contact your AmeriGlide provider before continuing.

Left-Hand Unit



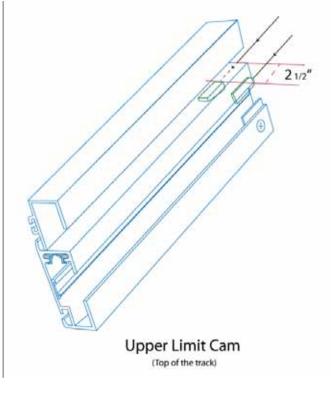
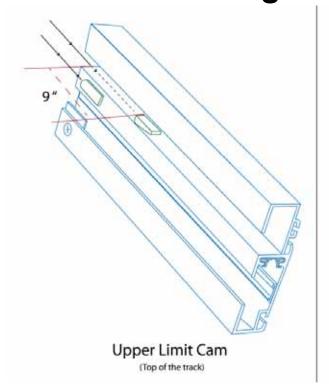


Diagram 2

Right-Hand Unit



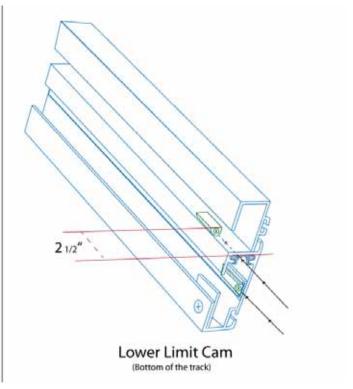


Diagram 3

Install the upper mechanical stop

Install the upper mechanical stop. This prevents the motor housing from overrunning the track should the limit switches fail to operate.

Procedure

1. The lower mechanical stop is factory installed. (Figure 44) The upper mechanical stop cannot be installed until the motor housing is put onto the track.



Figure 44

2. To install the upper mechanical stop, place it behind the front of the track with the hole in the stop aligned with the hole in the track. Screw in the bolt and secure the bolt with the provided nut. (Figure 45)



Figure 45

During normal operation, the lift should never touch either mechanical stop. The limit switch cams stop the lift during normal operation.

STEP 13

Install the chargers

Install the charger at the upper or lower landing as you previously determined.

Procedure

- 1. Do not plug the charger into the wall outlet until the charger is connected to the bus line.
- 2. To connect the charger to stair lift, you will need to connect a ground wire and a power wire. To attach the black wire, remove the screw shown below, insert through hole at the end of the black wire and screw back in (Figure 46).

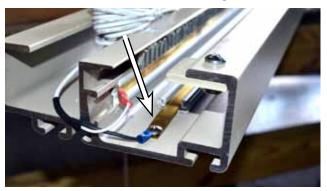


Figure 46

- The upper bus line connects to the white wire and the black wire to the side bus line (Figure 46). Do not allow copper stripe to contact the rail or each other.
- 4. Confirm all connections are correct.
- 5. Route the wiring behind the track using the lower bolt track (where the bracket bolts go), then place the lower track end cap on.
- 6. Plug the charger into the wall outlet. You should see a green LED light up on the charger if everything is okay. (Figure 47).
- 7. Mount the charger on the wall at the top or bottom of the stairway as appropriate for your



Figure 47

installation. Using the bracket and two screws provide, secure the charger to the wall (drill holes as required) (Figure 48).



Figure 48

STEP 14

Check the remotes

Check that the included call-send remotes work and install their holders on the wall.

1. Call-send remotes come pre-programmed from your AmeriGlide provider. Customers with double stair lift installs will have the call-send remotes programmed on different frequencies so that each set of controls works with only one unit.

NOTE

On left handed units, the green button will move the stair lift up. The red button will move the stair lift down. For right handed units, this is reversed.

2. Remove the battery covers on the call-send remotes and install the provided 9V batteries in the remotes. (Figure 49). Replace the battery



Figure 49

covers. The red LED on the remove will light up when you press either button if the batteries have been installed properly. (Figure 50).



Figure 50

- 3. Vesta call-send remotes are Infrared (IR) remotes. This means they must be pointed at the sensors located on either side of the motor housing. Point each call-send remote at the motor housing and confirm that it works. As noted before, all Vesta controls operate on a 3-5 second delay as a safety feature. Please make sure to press and hold the button for at least 5 seconds before considering that there may be a problem with the stair lift.
- Call-send remote holders should be mount at the top and bottom landings. Simply orient the holder properly and screw the holder into place. (Figure 51). Place a call-send remote into each holder. (Figure 52.)



Figure 51



Figure 52

Install the track end caps

Install the track end caps.

Procedure

- 1. The track end caps go on to the bottom and top ends of the track. (Figure 53).
- 2. To install the caps, simply slide them over the end of the track, and screw in the provided Phillips head screws, one per end cap. Confirm that the electrical connections were not jostled when you placed the cap on.

Secure bottom rail cap with screw

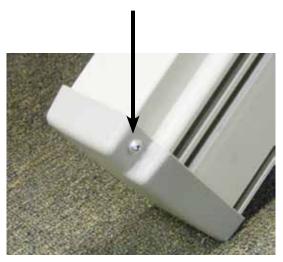


Figure 53

Check the installation

Do a visual check of the installation before beginning testing.

Procedure

- Verify that all electrical connections have been made properly. This includes the charger connections and the wire running from the switch on the seat to the motor housing.
- 2. Verify that all nuts and screws are firmly tightened.
- 3. Verify that all track mounting brackets are stable.

STEP 17

Test the stair lift's operation

Test the operation of your Vesta stair lift.

Time spent testing your Vesta stair lift now can prevent long term operational and maintenance issues. Please take a few extra minutes to perform all the checks listed below. Issues you overlook now can cause extra wear and tear that means extra downtime in the future. If any check fails, do not use your stair lift until you have resolved the issue with your AmeriGlide provider.

Procedure

- Does the up/down rocker switch on the seat's arm function properly? The switch is constant pressure and must be pressed and held to operate. Remember that there is a 3-5 second delay between pressing a switch and a response from the Vesta stair lift. This is a safety precaution and is normal.
- 2. Do both up and down buttons on each call-send control work?
- 3. Do the seat, armrests, and footrest fold up properly? (Figure 54).



Figure 54

4. Does the seat swivel handle work properly? Does it lock the seat in the 0° (Figure 55), 45° (Figure 56), and 90° (Figure 57) positions?

Seat Position - 0°



Figure 55

Seat Position - 45°



Figure 56

Seat Position - 90°



Figure 57

5. Does the seat belt slide in and out easily? Does it buckle and unbuckle easily (Figure 58)?



Figure 58

 Does the footrest sensor work properly? The stair lift should stop when it comes in contact with an obstacle on the stairs. Please use a piece of wood or other object for testing. (Figure 59) DO NOT USE YOUR ARM OR LEG FOR TESTING.



Figure 59

- 7. Do the upper and lower limit switches work? If the stair lift is traveling to the mechanical stop, please contact your AmeriGlide provider for support.
- 8. Does the swivel seat safety switch work? The stair lift should not operate if the seat is not locked in the ride position (0 degrees or parallel to the staircase). (Figure 60)



Figure 60

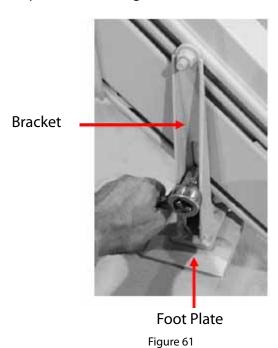
- Inspect the rack and gear and ensure that the motor housing travels smoothly along the rail. Only apply white lithium grease if there is squeaking during operation.
- 10. Does the LED on the front cover of the motor housing light up green? It should be a steady green light. If it's flashing, there is an issue with the charger. Please check that the charger is plugged in and on. You will see a green light on the charger itself.
- 11. If you hear a beeping sound that starts after using the lift and lasts for 16 beeps, there is an issue with the charger. Please refer to Step 13.
- 12. Finally, ride the stair lift yourself. Do you feel the stair lift is working properly? If not, please contact your AmeriGlide provider for support.

Install optional flip-up rail (as required)

Follow these steps if the unit has the optional flip-up rail section.

Refer to STEP 5 earlier in this guide for the standard track installation procedure. This section provides information on the optional flip-up rail section only.

1. Attach the special mounting bracket to the flipup rail section (Figure 61).



2. Trace the foot plate location on the floor (Figure 62).



Figure 62

3. Screw in the foot plate according to the tracing on the floor (Figure 63).

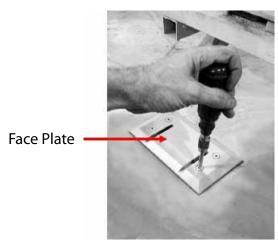
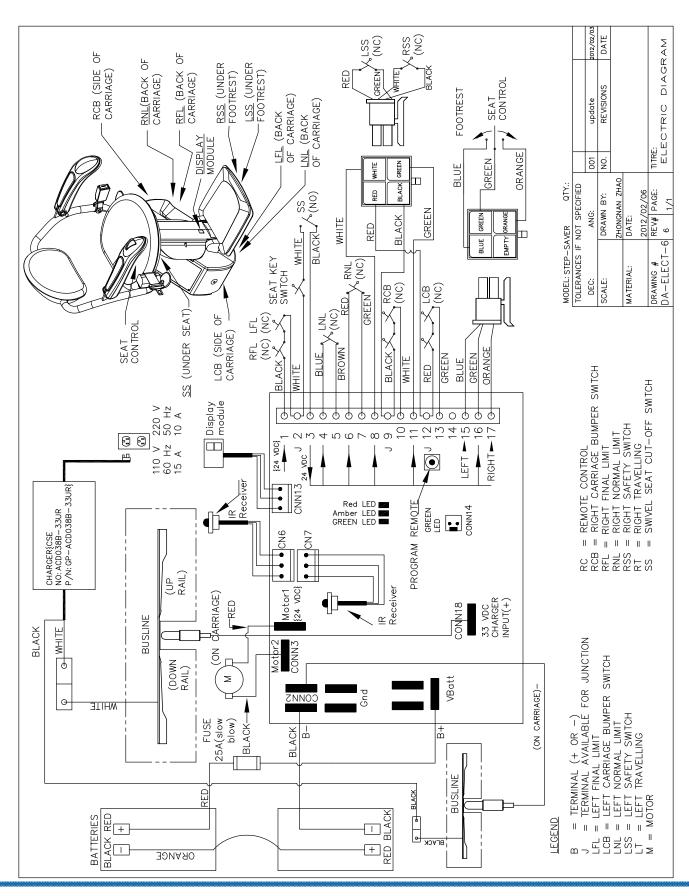


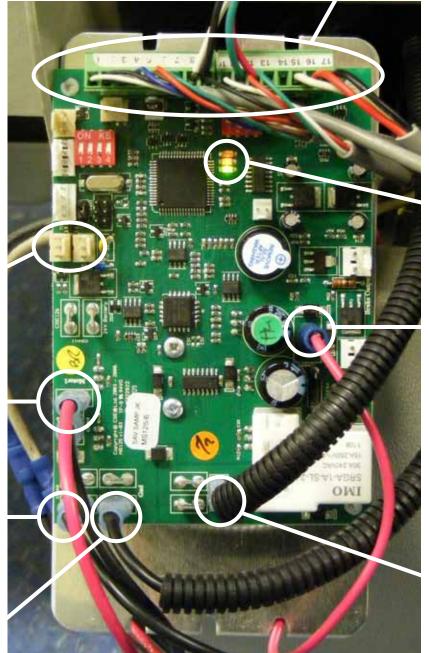
Figure 63

Electrical Diagrams and Troubleshooting Flowchart



Connections to MS125 PCB

Terminal block (pins 1 to 17) Refer to diagram on previous page for signal details



LEDs

Charger input (CONN18)

Motor 1 (red) and Motor 2 (black)

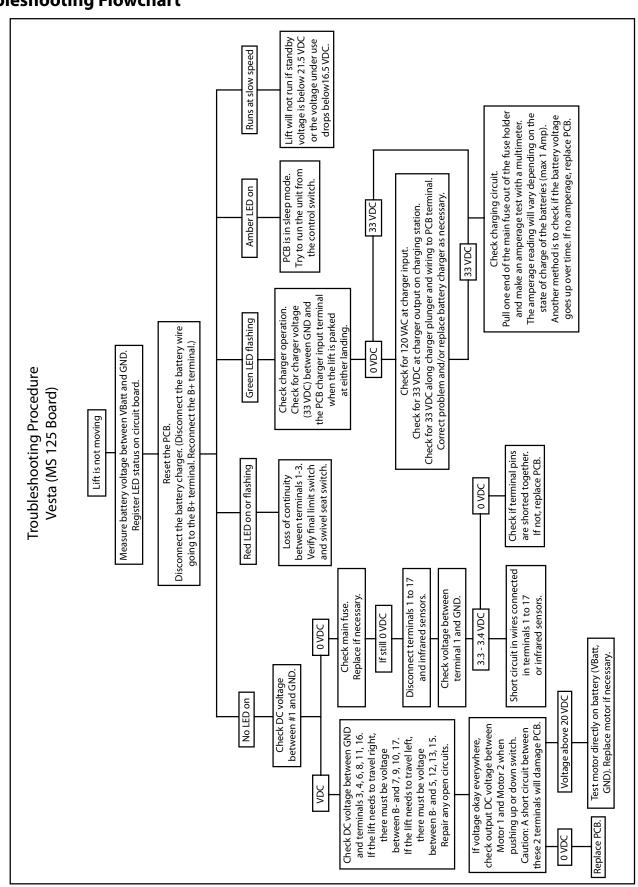
CN6 and CN7 Infrared receiver

GND

B-

Vbatt

Troubleshooting Flowchart



Diagnostic Codes

For codes displayed on the diagnostic display, refer to the following table to help diagnose and correct any faults.

NOTE

If the recommended corrective action provided in the table does not solve the problem, contact your authorized dealer for assistance.

Code	Status/Fault	Recommended Corrective Action
	No display.	Press the UP/DOWN rocker switch and see if the display comes on. Check that the key switch and ON/OFF switch are turned on.
-	On when the stairlift is okay; ready to use. Flashing when the stairlift is running.	No action required.
0	Final limit switch is activated or swivel seat switch is activated.	Check that the key switch is ON and the seat is fully swivelled to the riding position.
1	Batteries require charging.	Check that the charger is plugged in and charging.
2	Batteries not charging.	Check that the charger is plugged in and charging.
3	Upper limit safety switch is activated.	You have reached the upper limit. Run the unit in the down direction.
4	Safety edge switch (bumper) in up direction is activated.	Remove any obstacle that may have activated the switch.
5	Underpan switch is activated.	Remove any obstacle from underneath the footrest.
6	Safety edge switch (bumper) in down direction is activated.	Remove any obstacle that may have activated the switch.
	Lower limit safety switch is activated	You have reached the lower limit. Run the unit in the up direction.

7	Batteries approaching critical level and need charging.	Check that the charger is plugged in and charging.
9	Rocker switch is activated in UP/DOWN direction.	No action required.
Α	Hinge is open.	Contact your authorized dealer.
В	A switch is active at power on (toggle up, toggle down, IR up, IR down, or learn.	Contact your authorized dealer.
С	IR address (DIP switch) does not match.	Contact your authorized dealer.
D	Main power relay is welded.	Contact your authorized dealer.
Е	Main power relay did not close.	Contact your authorized dealer.
G	Brake not connected.	Contact your authorized dealer.
Н	Main power relay has closed early.	Contact your authorized dealer.
L	Current limit exceeded.	Contact your authorized dealer.
N	Stairlift is running at half speed.	Contact your authorized dealer.
0	Main control board has a memory problem.	Contact your authorized dealer.
Р	Powered swivel did not respond.	Contact your authorized dealer.
R	No charging current.	Check that the charger is plugged in and charging.

Remote Troubleshooting

Remote not functioning no lights

1. Check and replace the 9v battery.

Remote not functioning w/lights

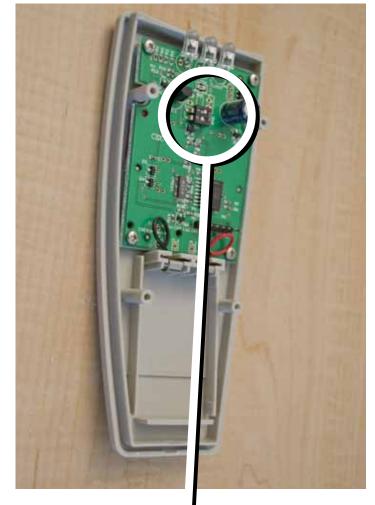
- 1. Confirm the lift is functioning by operating the onboard control.
- 2. Remove the stair lift's cover panel to access the main circuit board.
- 3. Press and hold the red button located next to the 17 pin plug on the circuit board (Figure 58).
- 4. Press and hold the up or down button on the remote control.
- 5. Release the red button on the circuit board.

The unit at this time should beep and start moving. If the unit is at one of the end stops, you may find the lift does not beep when you release the red button on the circuit board, if that is the case then press the other button on the remote.

If one or both remotes do not work after this procedure, then unscrew the back cover of the remote (4 screws - 2 are located beneath the battery cover) and reverse the dip switch settings (Figure 59), and repeat the steps described above.



Figure 58



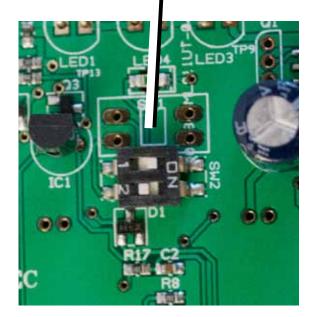


Figure 59

AmeriGlide Vesta **INSTALLATION GUIDE**

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